

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph on page 9 beginning at line 2, as follows:

Fig. 4 provides a flow chart of a signal processing method for forming an ideal beam pattern in the two-dimensional array antenna system as shown in Fig. 3; and

Fig. 5 is a block diagram illustrating a CDMA adaptive array antenna system.

Please amend the paragraph on page 16 beginning at line 4, as follows:

Hereinafter, the whole procedure for obtaining the optimum phase delay vector described above as an embodiment ~~will be summarized as follows~~ is discussed in reference to Fig. 2.

Please amend the paragraph beginning on page 16, line 25, as follows:

And then, at step 207, if it is necessary to update the weight (determined in step 206), a next signal ( $\underline{x}(t)$ ) is received and the procedure goes back to the step 202 where the output signal ( $y = \underline{w}^H \cdot x$ ) is computed to repeat the above procedure at every snapshot (otherwise, the process ends).

Please amend the paragraph on page 23 beginning at line 10, as follows:

And then, at step 407, if it is necessary to update the weight (determined at step 406), a next signal ( $\underline{x}(t)$ ) is received and the procedure goes back to the step 402 where the output signal ( $y = \underline{w}^H \cdot x$ ) is computed to repeat the above procedure at every snapshot (otherwise, the process ends).

Additionally, Fig. 5 shows a CDMA adaptive array antenna system for maximizing transceiver gain only in a direction toward a target mobile station, during transception between a base station and the mobile station. The system includes a processor and a storage medium on which programs may be stored.

Please amend the paragraph beginning on page 23, line 26, as follows:

Therefore, [[a]] an ordinary processor can be used to process signal recovery and transmission in the real communications environment for the two-dimensional array antenna.